

## Test Report

KE/2014/B2263

Date : Nov 27, 2014

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New Prismatic Enterprise Co., Ltd.  
No. 4, Alley 27, Lane 195, Yung Feng Rd., Tu-Cheng District,  
New Taipei City 236, Taiwan

The following sample(s) was / were submitted and identified on behalf of the client as :

Material Name : Thermochromic MC Pigment 31C Black  
Color : Black  
Style / Item No. : TM-PD 31-3141  
Sample Submitted By : New Prismatic Enterprise Co., Ltd.  
Sample Receiving Date : Nov 21, 2014  
Testing Period : Nov 21, 2014 ~ Nov 27, 2014

Test Method & Results : Please refer to next page(s).

  
**Jerry Tung / Asst. Manager**  
Signed for and on behalf of  
SGS Taiwan Limited



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Test Results :

## EN71-3:2013 – Migration of certain elements

### Category III: Scrapped-off toy material

Method : With reference to EN 71-3:2013. Analysis of general elements was performed by ICP-AES. Chromium III & Chromium VI were analyzed by LC-ICP-MS. Organic Tin was analyzed by GC-MS.

Test Item	Result (mg/kg)		Reporting Limit (mg/kg)	Reference Limit** (mg/kg)
		1		
Soluble Aluminium (Al)		ND	50	70,000
Soluble Antimony (Sb)		ND	10	560
Soluble Arsenic (As)		ND	10	47
Soluble Barium (Ba)		ND	50	18,750
Soluble Boron (B)		ND	50	15,000
Soluble Cadmium (Cd)		ND	5	17
Soluble Chromium (III) (Cr (III))		ND	1	460
Soluble Chromium (VI) (Cr (VI))		ND	0.18	0.2
Soluble Cobalt (Co)		ND	10	130
Soluble Copper (Cu)		ND	50	7,700
Soluble Lead (Pb)		ND	10	160
Soluble Manganese (Mn)		ND	50	15,000
Soluble Mercury (Hg)		ND	10	94
Soluble Nickel (Ni)		ND	10	930
Soluble Selenium (Se)		ND	10	460
Soluble Strontium (Sr)		ND	50	56,000
Soluble Zinc (Zn)		ND	50	46,000
Soluble Tin (Sn)		ND	4.9	180,000
Soluble Organic Tin	--	ND	--	12

Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)		MDL (mg/kg)
		1	
Methyl tin (MeT)		ND	0.5
Di-n-propyl tin (DProT)		ND	0.5
Butyl tin (BuT)		ND	0.5
Dibutyl tin (DBT)		ND	0.5
Tributyl tin (TBT)		ND	0.5
n-Octyl tin (MOT)		ND	0.5
Tetrabutyl tin (TeBT)		ND	0.5
Diphenyl tin (DPhT)		ND	0.5
Di-n-octyl tin (DOT)		ND	0.5
Triphenyl tin (TPhT)		ND	0.5

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### Sample Description :

1. Thermochromic MC Pigment 31C Black

Note : - mg/kg = milligram per kilogram  
 - ND = Not Detected  
 - 1% = 10000 mg/kg = 10000 ppm

Remark : \*\* = Test requirement in the submitted sample is not applicable. The product scope that mentioned by European Directive 2009/48/EC is for toy material.

### Sample Photo

# KE/2014/B2263



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*